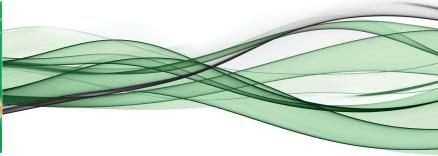
# Spectra SP Series 4 to 32-Zone Expandable Security Systems







## Description

Spectra SP control panels (SP4000, SP5500, SP6000, SP65, and SP7000) offer a combination of innovative features and an advanced communication bus for a uniquely expandable security system. Through its communication bus, all Spectra SP panels can be expanded via wireless and hardwired expansion modules and a variety of accessory modules. With their in-field firmware upgrade capability, the Spectra SP series allows installers to upgrade their system without hassle - quickly, easily, and on-site. To further facilitate installation, every Spectra SP panel can be configured using easy-to-follow, menu-driven programming.

Spectra SP also features multipath communication; this enables your system to communicate through multiple channels, including telephony with its built-in landline dialer, IP with the IP150 Internet Module, IP/GPRS/GSM with the PCS series module, and voice with the VDMP3 Plug-In Voice Module.

With its reliable communication technology, flexible expansion and user-friendly keypads, Spectra SP is the complete residential or commercial security solution.

## **Features**

- Supports StayD mode
- 4-wire expansion bus
- Wireless expansion (via RTX3 / RX1)
- Expandable to 32 zones
- Expandable to 16 PGMs
- 2 partitions
- 32 user codes
- Supports PCS series modules
- Supports IP150 Internet Module
- Supports VDMP3 Plug-in Voice Module
- Supports REM3 Hand-held Remote Keypad
- · Supports SR150 Wireless Siren
- Landline dialer (except SP65)
- · In-field firmware upgradable



## System Overview

#### **Control Panels**



#### SP65

SP65: 9 to 32-Zone Control Panel SP4000: 4 to 32-Zone Control Panel SP5500: 5 to 32-Zone Control Panel SP6000: 8 to 32-Zone Control Panel SP7000: 16 to 32-Zone Control Panel

#### Wired Keypads



TM70

TM70: Intuitive Touchscreen TM50: Intuitive Touchscreen

K32LX: Wired LCD Keypad with Integrated RF

Transceiver

32-Character Wired LCD Keypad Module K32LCD+: 32-Zone Wired Fixed LCD Keypad Module K35: 32-Zone Wired LED Keypad Module K32+: K10V: 10-Zone Wired LED Keypad

10-Zone Wired LED Keypad K10H: K636: 10-Zone LED Keypad Module

#### Video Monitoring



Outdoor 720p HD Camera HD88: HD78F: **Event-Driven Indoor** 

Security IP Camera /

Detector



HD88

## **Expansion Modules**



ZX82: 8-Zone Expansion Module ZX8SP: 8-Zone Expansion Module ZX8: 8-Zone Expansion Module PGM82: 8-PGM Expansion Module PGM4: 4-PGM Expansion Module RTX3: Wireless Expansion Module

# ZX82

## RX1: Wireless Receiver

#### **Communicator Modules**



PCS265LTE: LTE / 4G / 3G / 2G / GSM

Communicator Module

PCS250 / G: GPRS / GSM

Communicator Module IP150. **IP Communicator** 

PCS265LTE VDMP3: Plug-In Voice Module

#### Software & Accessories



Insite GOLD: Mobile App

2.8A Supervised Power PS25:

Supply

PS45: 5A Supervised Bus

**Power Supply** 2 Port HUB

HUB2: PMC5: Memory Key Insite **GOLD** 

307USB: **Direct Connect Interface** BabyWare: **PC Software** InField: Firmware Upgrade

Software

## Wireless Keypads and Remotes



32-Zone Wireless Fixed LCD Keypad K37: REM3: Hand-Held Two-Way Remote Control Keypad 2-Way Remote Control with Backlit Buttons REM25: REM2: 2-Way Remote Control with Backlit Buttons REM1: Remote Control with Backlit Buttons REM15: Remote Control with Backlit Buttons REM101: Emergency / Panic Remote Control Remote Control with Integrated Access Card RAC1:

K37

PMD85

#### Wireless Devices

PMD85: Wireless Outdoor Digital Dual-Optic

High-Performance PIR

PMD75: Wireless Digital Dual-Optic High-Performance PIR

Wireless PIR Motion Detector with Built-in PMD2P:

Pet Immunity

NV75MR: Wireless 16M Dual Mironel Optics Pet Immune Anti-Mask Detector

NV35MR: Wireless Outdoor / Indoor Window and Sliding Door Dual Detector with

Anti-Masking and Pet Immunity NV780MR: Wireless Dual Side-View Outdoor Detectors

with Anti-Masking and Pet Immunity

DCT6: Wireless Door Contact

DCT10: Wireless 2-Zone Long-Range Door Contact

DCTXP2: 2-Zone Wireless Door Contact DCT2: Wireless Ultra-Small Door Contact G550: Wireless Glass Break Detector GS250: **Gpower Wireless Multi-axis Detector** SD360: Wireless Ceiling-Mounted Smoke Detector SR130: Wireless Outdoor Siren with Built-in

Strobe Light

SR150: Wireless Outdoor Siren with Built-in

Strobe Light

RPT1: Wireless Repeater Module 2WPGM: 2-Way Wireless PGM

For compatibility details, visit us at paradox.com

## Feature Details



## Internet Communication (IP150)

The IP150 Internet Module allows you to control and monitor your security system remotely through any web browser. It allows for email notifications of important system events such as alarms, arm/disarm events, and troubles. For example, receive an email at work when your kids get back from school. Also, view the live status of your system and arm/disarm it. For instance, you have just left your office for the weekend but are unsure whether you armed the system. Simply check the status of your system from a laptop and arm it.



## Wireless Communication (PCS Series)

The PCS series modules provide the Spectra SP control panels with wireless communication capabilities to report system events via IP, GPRS, and/or GSM. Whether it be uploading/downloading via IP or GPRS, receiving system status and events by voice or text message, or reporting to the monitoring station via IP, GPRS, or GSM, the PCS series enhances the communication capabilities of any Spectra SP installation.



## Voice Communication (VDMP3)

The VDMP3 is a plug-in, voice-assisted module that can be programmed to call up to five telephone numbers in the event of an alarm. For example, when an alarm occurs at your store during off-hours, every employee can receive notification via telephone. You can also call the VDMP3 from an outside line, enabling you to arm or disarm the system as well as activate PGMs. The VDMP3 essentially turns any outside telephone into a keypad. The VDMP3 is easy to install; plug it in directly onto the panel, set the phone numbers, and select the activation event.



## StayD

StayD resolves all issues with common security systems and represents the only solution for secure living. The revolutionary StayD feature represents a completely reversed philosophy compared to all other security systems made today. Traditional systems share the same principle - in order to provide security, users must remember to arm the system; otherwise the system is disarmed and does not provide security. A StayD system is always armed, and needs only to be partly disarmed when an entry or exit is needed. With StayD, you can truly have peace of mind knowing, that you are always protected.



## In-field Upgradable

Spectra SP is not only easy to install, but is also fully in-field upgradable, allowing for simple on-site updates. The process is effortless; connect the PC to the panel and you are a few clicks away from performing a complete system upgrade within minutes. No need to change panels or hardware; all the updates are performed using Paradox's InField Firmware Upgrade Software.



## App-based System Control

The Insite GOLD app enables you to remotely access your Paradox security system and view your system cameras. Insite GOLD provides lots of functionality and information at one's fingertip. It has an intuitive user-interface which enables you to easily connect to your security system and edit settings. Now you can control your Paradox security system from any Android / iOS smartphone.

## TM70 Overview



\_\_\_\_ 7 in

TM70: Intuitive Touchscreen

17.7 cm

## SpotOn Locator™

Upload photos, images, or schematics to eliminate the need for deciphering LED zone lights. These images display any door, window, or motion detector that are active. Since the images are uploaded by the user, they are truly customized, and can be unique to each installation. SpotOn Locator™ is integrated in the original firmware, and when purchased, is unlocked with an authorization code.

## ■ OneScreen Monitoring<sup>™</sup>

Provides a real-time visual display of the system's status on one screen. It allows the user to choose which partitions will be displayed showing arming level, alarm, ready, and troubles. It also displays zone statuses; open, close, bypass, alarm, and tamper. OneScreen Monitoring™ also features Solo Test™ mode, which allows installers and users to easily test all system zone's via the TM70 Touch's screen. OneScreen Monitoring™ is integrated in the original firmware, and when purchased, is unlocked with an authorization code.

## Specifications

Display	16-bit, color LCD; 8.6 x 15.4 cm (3.1 x 5.9 in.), 800 x 480 pixels					
Input Voltage	9 to 15 Vdc					
Current Consumption	250 mA at max brightness + 80 mA sounder					
Keypad Zone Input	1 for a detector or external temperature sensor					
Tamper	Built-in, cover and wall					
Humidity	5 to 90%					
Operating Temperature	-10 to 55 °C (14 to 131 °F)					
Compatibility	Swan, EVO, Spectra, Magellan					

Note: All control panel outputs are rated to operate between 11.4 Vdc and 12.5 Vdc.



## $Specifications\ PRX2780000033\text{-}P2C$

The PRX2780000033-P2C is a metal box enclosure for provision multiple module and panel mounting.

### Features:

- Many punch-out holes for simple wiring
- Easy door removal
- Sizes: 28cm X 28cm X 7.6cm (11" x11" x 3")





## **Specifications PRXK-TK278**

The PRXK-TK278 is a BOM Kit for 1x tamper switch PRX2502302000-P2C and 1x tamper bracket PRX2781030000-P2C to suit with Paradox Metal Box Enclosure PRX2780000033-P2C; to protects against tampering (opening door or removal from wall).



# SP5500+ / SP6000+ / SP7000+ User Guide

**4 to 32-Zone Expandable Security Systems** 



### $P \wedge R \wedge D \cap X^{m}$

## TM50 (5") / TM70 (7")

## Touch Screen Keypads



#### TM50/TM70

The TM50/TM70 are touch screen input keypads designed to communicate with Paradox control panels, and offer user friendly interface. Both offer vivid colors and two sizes to select, 7" – TM70 or 5" – TM50.

The TM70 due to its larger screen allows for more information to be displayed on one screen and is more convenient in comparison to the TM50.

Both touch screen displays are compatible with Spectra, Magellan and EVO Paradox systems, and both support Paradox next generation Swan panels with RS-485 fast encrypted bus, and features like complete menu programming, remote keypad firmware upgrade and screen saver images download from the Insite GOLD application.

The TM70 / TM50 have screen savers with auto mode, adjustable brightness with auto dim mode and full dark sleep mode, indoor temperature display, bus voltage monitoring and easy multi-partition control.

The TM70 LCD color display resolution is 800 x 400 pixels while the TM50 resolution is 472 x 272 pixels. Both come with an external SD media card (4 GB), 2 GB free space for uploading jpegs for screen savers.

The TM70 is offered in white and the TM50 in white or black colors, other colors may be custom ordered.

#### **Features**

- ▶ 7" (TM70) / 5" (TM50) with vivid color display
- ▶ Compatible with Swan, EVO, Spectra and Magellan
- Built-in zone input
- Customizable labels (zones, partitions, users, doors and PGMs)
- External SD Media Card slot (4 GB with 2 GB of free space) for uploading photos; acts like a digital picture frame
- Firmware upgradable via SD card
- ▶ Indoor temperature reading
- In-wall bracket (optional)



TM70 installed with in-wall optional bracket

## **Technical Specifications**

	TM70	TM50					
Power Input	9 to 15 VDC						
Consumption	250 mA at max brightness + 80 mA sound	er 150 mA at max brightness, +80 mA sounde					
Wire Connection	18 Gauge	22 Gauge, 18 Gauge recommended					
Display	7" 800 x 480	5" 480 x 272					
Dimensions	17.7 x 11.4 x 1.5 cm (7 x 4.5 x 0.6 in.)	14.2 x 9.5 x 1.4 cm (5.6 x 3.75 x 0.56 in.)					
Humidity		5-90%					
Indoor Temperature	Yes						
SD Card	4 GB; 2 GB free						
Input	Zone,	configurable					
Tamper	Built-in,	cover and wall					
Compatibility	Swan, EVO,	Spectra, Magellan					
Remote Upgrade	Sı	wan only					
Jpeg Download	Swan via Bus, E	EVO/Spectra SD Card					
Auto Dim		Yes					
Chime		Yes					







## VRLA 12V7AH

## **SA12V7**

#### **Specifications**

Nominal Voltage Nominal Capacity 20HR

Dimensions

Approx Weight

Terminal

Container Material

Lead Material

Sulfurid Acid Separator

Rated Capacity

Max. Discharge Current

Internal Resistance

Operating Temp.Range

Nominal Operating Temp.Range

Cycle Use

Standby Use

Capacity affected by Temperature

Self Discharge

12 V

7.0 AH

 Length
 151±1mm [5.94 inches]

 Width
 65±1mm [2.56 inches]

 Container Height
 95±1mm [3.74 inches]

Container Height 95±1mm (3.74 inches)
Total Height (with terminal) 100±1mm (3.94 inches)

Approx 2.10 kg (4.63 lbs)

F1

ABS Plastic

Purity Lead 99.995%

Distilled Sulfurid Acid (Zero metal content)

AGM

7.00 AH/0.350A [20hr, 1.80V/cell, 25°C/77°F] 6.53 AH/0.653A [10hr, 1.80V/cell, 25°C/77°F] 6.00 AH/1.20A [5hr, 1.75V/cell, 25°C/77°F] 5.37 AH/1.79A [3hr, 1.75V/cell, 25°C/77°F] 4.55 AH/4.55A [1hr, 1.60V/cell, 25°C/77°F]

105A (5s)

Approx  $23m\Omega$ 

Discharge: -15 - 50°C (5 - 122°F) Charge: 0 - 40°C (32 - 104°F) Storage: -15 - 40°C (5 - 104°F)

25±3°C [77±5°F]

Initial Charging Current less than 2.1A. Voltage

14.4V - 14.7V at 25°C (77°F) Temp.Coefficient -30mV/°C

No limit on Initial Charging Current Voltage

13.5V - 13.8V at 25°C (77°F) Temp.Coefficient -20 mV/°C

40°C [104°F] 103% 25°C [77°F] 100% 0°C [32°F] 86%

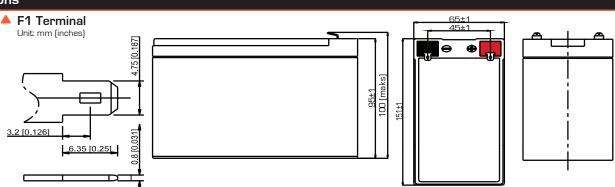
Sentry AGM series batteries may be stored for up to 6 months at  $25^{\circ}$ C ( $77^{\circ}$ F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



### **Applications**

- All purpose
- Standby Applications
- Recreation Vehicles
- Uninterruptible Power Supply (UPS)
- Electric Power System (EPS)
- Fire & Security
- Generators
- Medical Equipment

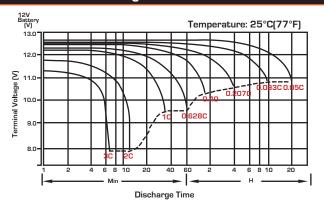
#### **Dimensions**



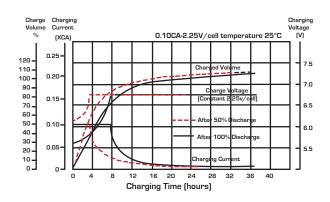
	Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.0	12.8	10.48	8.79	6.53	4.79	3.86	2.29	1.69	1.36	1.14	0.98	0.774	0.640	0.345
1.80V/cell	21.4	14.3	11.4	9.44	6.94	5.05	4.03	2.38	1.74	1.40	1.17	1.01	0.791	0.653	0.350
1.75V/cell	24.2	15.6	12.2	10.0	7.29	5.27	4.18	2.45	1.79	1.43	1.20	1.03	0.805	0.663	0.357
1.70V/cell	26.7	16.7	12.9	10.5	7.59	5.46	4.32	2.51	1.83	1.46	1.22	1.05	0.817	0.672	0.361
1.65V/cell	28.8	17.7	13.5	10.9	7.86	5.62	4.46	2.57	1.86	1.48	1.23	1.06	0.826	0.680	0.365
1.60V/cell	30.6	18.6	14.1	11.3	8.09	5.76	4.55	2.61	1.89	1.50	1.25	1.07	0.834	0.685	0.367

	Constant Power Discharge (Watts/Cell) at 25°C (77°F)														
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	34.2	24.5	20.2	17.1	12.8	9.44	7.64	4.56	3.37	2.72	2.29	1.99	1.565	1.296	0.701
1.80V/cell	40.2	27.2	21.9	18.3	13.5	9.91	7.96	4.72	3.47	2.79	2.34	2.03	1.593	1.318	0.708
1.75V/cell	45.1	29.5	23.3	19.3	14.2	10.3	8.23	4.85	3.55	2.85	2.39	2.06	1.616	1.344	0.719
1.70V/cell	49.2	31.3	24.5	20.1	14.7	10.6	8.48	4.96	3.62	2.89	2.42	2.09	1.633	1.347	0.725
1.65V/cell	52.6	32.9	25.5	20.8	15.2	10.9	8.73	5.05	3.68	2.93	2.45	2.11	1.649	1.359	0.731
1.60V/cell	55.5	34.3	26.3	21.5	15.5	11.2	8.88	5.12	3.72	2.96	2.47	2.13	1.660	1.367	0.734

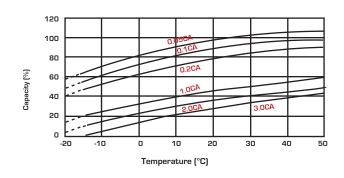
#### **Discharge Characteristics**



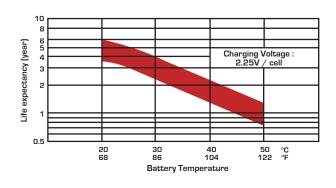
### Float Charging Characteristics



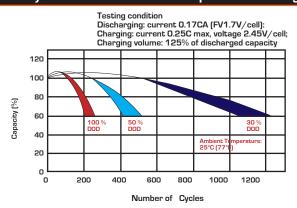
## Temperature Effects in Relation to Battery Capacity



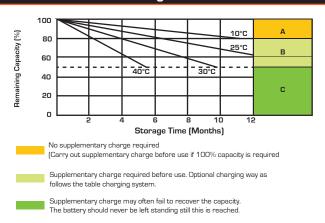
#### Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



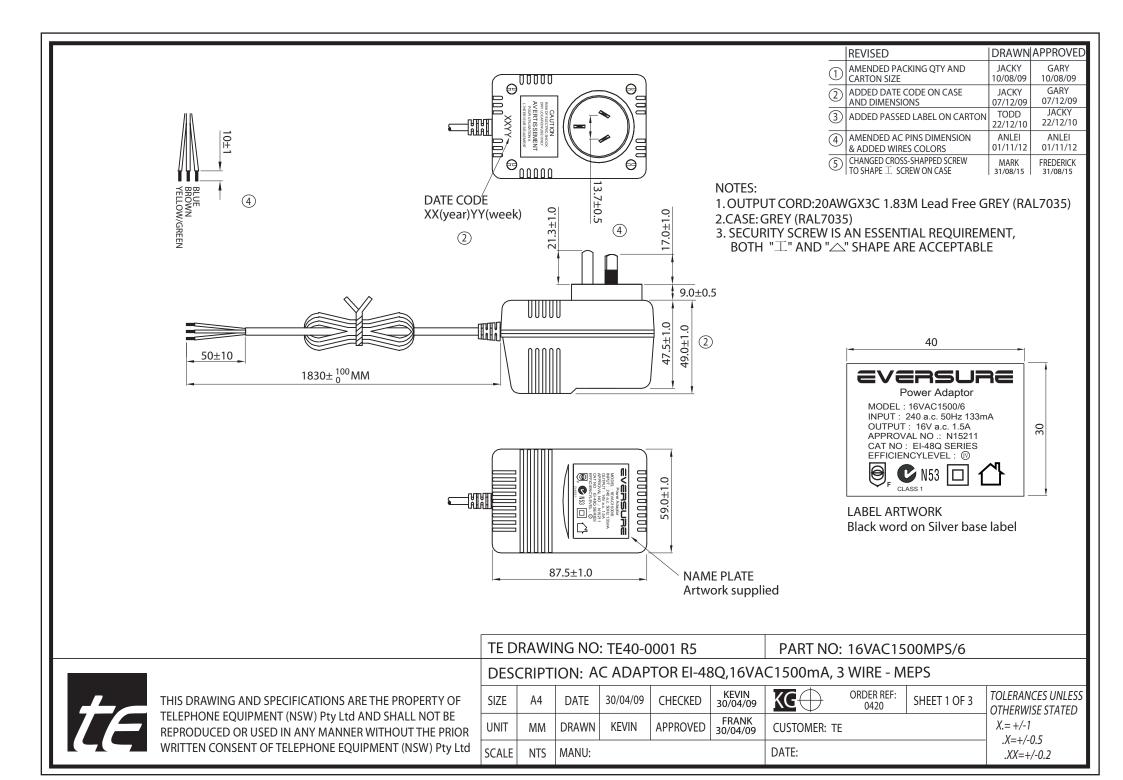
#### **Charging System**

DOD	Currency Limit (A)	Constant Voltage (V)	Fully Charged Time (h)
20	0.15C₁₀	13.5-13.8 vpc (12V)	10
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	8
50	0.15C₁₀	13.5-13.8 vpc (12V)	15
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	12
80	0.15C₁₀	13.5-13.8 vpc (12V)	16
80	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	14
100	0.15C₁₀	13.5-13.8 vpc (12V)	20
	0.20C <sub>10</sub>	6.75-6.9 vpc (6V)	18

#### State of Charge (SOC)

Open Circuit Voltage (V/cell)	Open Circuit Voltage (12V/cell)	Open Circuit Voltage (6V/cell)	State of Charge (% of full charge capacity)
2.14-2.15	12.84-12.90	6.42-6.46	100
2.12-2.13	12.72-12.78	6.36-6.39	90
2.11	12.66	6.33	80
2.09	12.54	6.27	70
2.07	12.42	6.21	60
2.05	12.30	6.15	50





TEM	ITE	\ <b>a</b>	CRECIFICATION						
2. Secondary rated output voltage and current   Loaded Voltage : AC   18   V ± 5%   AT   1500 mA									
voltage and current 3. Ripple voltage 4. Insulation resistance Primary - secondary: DC 500 V 100 M Ω Min  5. Dielectric withstand test Primary - secondary: AC 3.64 KV 1 seconds 6. Temperature rise At rated loading 90°C max. For input coil (By resistance method) and 55°C max. on case surface (By use of thermometer)  7. EFFICIENCY ≥ 79%  Primary SAA PLUG IN TYPE  8. Leadout  Primary Secondary PVC cable length: 1.8 Meter Colour : GREY (RAL7035) Wire size AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY  9. Test circuit									
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6. Temperature rise  At rated loading 90°C max. For input coil (By resistance method) and 55°C max. on case surface (By use of thermometer)  7. EFFICIENCY  ≥ 79%  Primary  SAA PLUG IN TYPE  8. Leadout  PVC cable length: 1.8 Meter Colour: GREY (RAL7035) Wire size: AWG#20/3C Plug: STRIPPED AND TINNED  PRIMARY  PRIMARY SECONDARY  9. Test circuit	4. Insulation resist	ance	Primary - secondary: DC 500 V 100 M Ω Min						
and 55℃ max. on case surface (By use of thermometer)  7. EFFICIENCY  ≥ 79%  Primary  SAA PLUG IN TYPE  8. Leadout  Secondary  PVC cable length: 1.8 Meter Colour : GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY  THERMAL FUSE  9. Test circuit	5. Dielectric withst	and test	Primary - secondary: AC 3.64 KV 1 seconds						
and 55℃ max. on case surface (By use of thermometer)  7. EFFICIENCY  ≥ 79%  Primary  SAA PLUG IN TYPE  8. Leadout  Secondary  PVC cable length: 1.8 Meter Colour : GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY  THERMAL FUSE  9. Test circuit	6. Temperature rise	e	At rated loading 90℃ max. For input coil (By resistance method)						
7. EFFICIENCY  ≥ 79%  8. Leadout  Primary  SAA PLUG IN TYPE  Secondary  PVC cable length: 1.8 Meter Colour : GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY  THERMAL FUSE  PRIMARY  PRIMARY  PRIMARY  A  THERMAL FUSE									
8. Leadout  Secondary PVC cable length: 1.8 Meter Colour : GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY THERMAL FUSE  9. Test circuit	7. EFFICIENCY								
Secondary  PVC cable length: 1.8 Meter Colour GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY THERMAL FUSE  9. Test circuit		Primary	SAA PLUG IN TYPE						
9. Test circuit  Colour : GREY (RAL7035) Wire size: AWG#20/3C Plug : STRIPPED AND TINNED  PRIMARY SECONDARY THERMAL FUSE  O  O  O  O  O  O  O  O  O  O  O  O  O	8. Leadout								
9. Test circuit  Wire size: AWG#20/3C Plug: STRIPPED AND TINNED  PRIMARY SECONDARY THERMAL FUSE  PRIMARY SECONDARY THERMAL FUSE		Secondary	PVC cable length: 1.8 Meter						
9. Test circuit  Plug : STRIPPED AND TINNED  PRIMARY SECONDARY  THERMAL FUSE			Colour GREY (RAL7035)						
9. Test circuit			Wire size: AWG#20/3C						
9. Test circuit			Plug : STRIPPED AND TINNED						
9. Test circuit			PRIMARY SECONDARY						
LOADING	9. Test circuit		THERMAL MILE AND A THERMAL						
			LOADING						
10. Case SAA48 colour = GREY (RAL7035)	10. Case		SAA48 colour = GREY (RAL7035)						

	REVISED	DRAWN	APPROVED
1	AMENDED PACKING QTY AND CARTON SIZE	JACKY 10/08/09	GARY 10/08/09
2	ADDED DATE CODE ON CASE AND DIMENSIONS	JACKY 07/12/09	GARY 07/12/09
3	ADDED PASSED LABEL ON CARTON	TODD 22/12/10	JACKY 22/12/10
4	AMENDED AC PINS DIMENSION & ADDED WIRES COLORS	ANLEI 01/11/12	ANLEI 01/11/12
(5)	CHANGED CROSS-SHAPPED SCREW TO SHAPE   SCREW ON CASE	MARK 31/08/15	FREDERICK 31/08/15

te

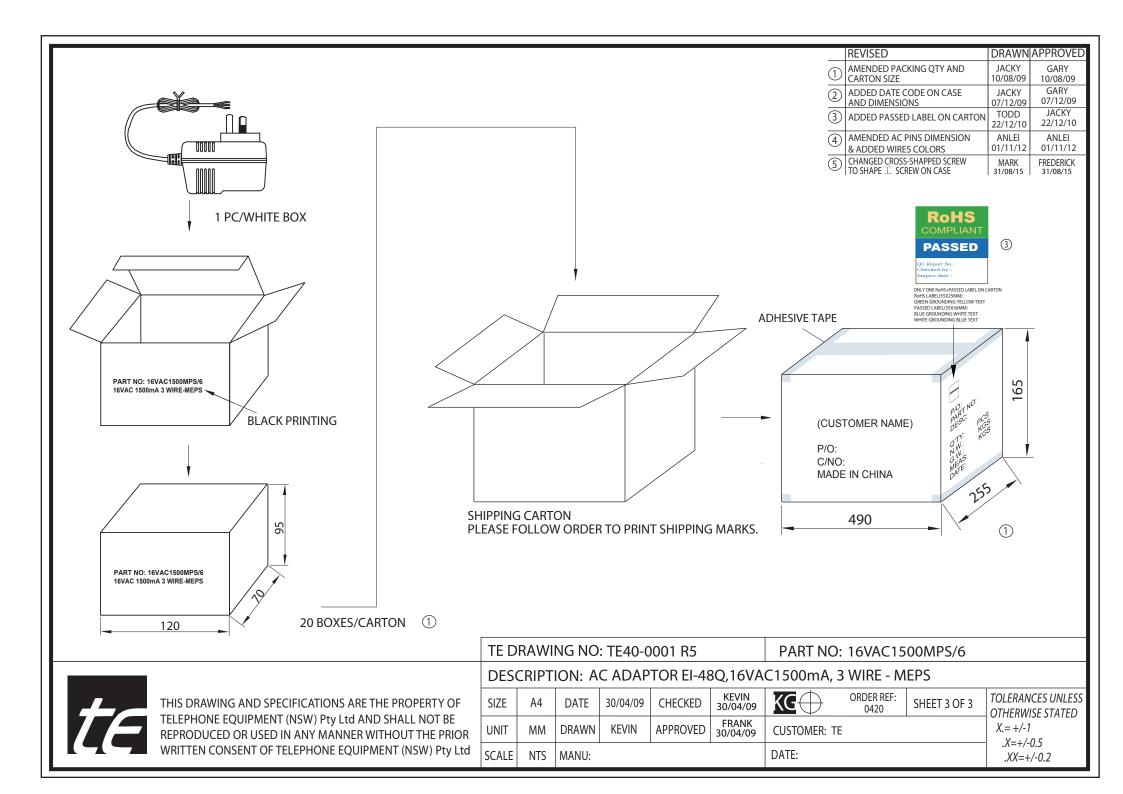
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TE DRAWING NO: TE40-0001 R5

DESCRIPTION: AC ADAPTOR EI-48Q,16VAC1500mA, 3 WIRE - MEPS

SIZE	A4	DATE	30/04/09	CHECKED	KEVIN 30/04/09	KG	ORDER REF: 0420	SHEET 2 OF 3	TOLERANCES UNLESS OTHERWISE STATED
UNIT	MM	DRAWN	KEVIN	APPROVED	FRANK 30/04/09	CUSTOMER: TE			X.= +/-1 .X=+/-0.5
SCALE	NTS	MANU:				DATE:			.XX=+/-0.2

PART NO: 16VAC1500MPS/6





## **Specifications TELLC0280**

The TELLC0280 is the telephone lead with 606 Socket and 2 Meter length of Telephone Cord.

Colour: Ivory.

